

ABSTRACT

The invention relates to an intelligent laminated pressure surface. The inventive surface consists of: an elastic sheet which is designed to measure a determined external pressure and which is provided with numerous holes, said holes extending from the 5 surface to the base thereof; and two sheets having inner conductive faces which essentially cover both sides of said holes. According to the invention, the aforementioned pressure establishes a contact between the faces facing one another through the holes, thereby closing an electrical or optical conductor circuit. The invention can be used to locate determined pressures, evaluate the frequencies and 10 intervals thereof and measure a pressure level or several pressure levels if more than one of the above-mentioned groups of sheets are disposed back-to-back. Moreover, the invention comprises an integrated conductor circuit and an antenna which alerts the user by means of an alarm or read device. The invention is particularly suitable for medical applications, such as in the prevention of diabetes foot, decubitus ulcers, etc.